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COUNTRY Hungary

REPORT

SUBJECT Artillery in the Pre-Revolution
Hungarian Armed Forces

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report concerning artillery in the pre-revolution Hungarian Armed Forces. The report gives the following information: artillery pieces in use by the Hungarian Army, artillery pieces in use by the Soviet forces in Hungary but intended for ultimate use by the Hungarian Army, antiaircraft weapons in use by the Hungarian Army, signal equipment in use by the Hungarian Army, the organization of signal units in artillery formations, Soviet advisers to the Hungarian Armed Forces, telephone communications setup of a corps artillery commander, and the layout of an artillery commander's signal communications in an army corps. The report also includes 14 charts, showing the organization of the pre-revolution Hungarian Armed Forces, with the position occupied in that organization by the artillery.

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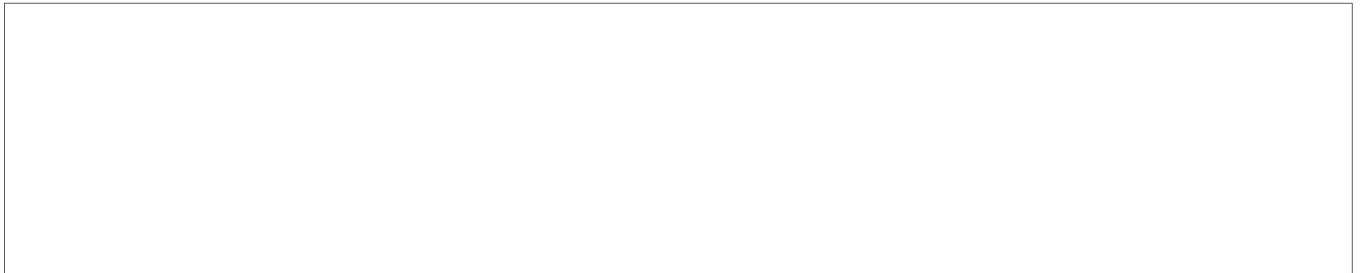


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COUNTRY: Hungary

SUBJECT: Artillery in the Hungarian Armed Forces

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Weapons

1. The following artillery pieces were used by the Hungarian Army:

- a. 57 mm. antitank gun. Weight - 1150 kg.; range - 8500 meters; rate of fire - 20 rounds per minute; weight of round - 3.5 kg.; semi-automatic, crew of five; moved by $1\frac{1}{2}$ ton truck; introduced in service in 1951.
- b. 76.2 mm. gun, model 1949, with muzzle brake (Cso Szaj Fekes). Weight - 1116 kg.; range - 13.2 km.; rate of fire - 15 rounds per minute; weight of round - 6 kg.; semi-automatic, crew of five; moved by a 3-ton truck.
- c. 122 mm. howitzer. Weight - 2400 kg.; range - 10.8 km.; rate of fire - 8 to 12 rounds per minute; weight of round - 21.8 kg.; introduced to service in 1948.
- d. 152 mm. gun-howitzer. Weight - 3500 kg.; range 12.3 km.; weight of round - 49.5 kg.; crew of seven.



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- e. 122 mm. gun. Weight - 7117 kg.; range 21.8 km.; weight of round - 21.8 kg.; crew of eight; pulled by tracked prime mover type S-80 or YA-12.
 - f. 152 mm. howitzer. Weight - 7140 kg.; range - 17 km.; rate of fire - four to six rounds per minute; weight of round - 40.5 kg.; crew of eight; pulled by tracked prime mover; introduced into service in 1949.
 - g. 82 mm. mortar. Weight - 56 kg.; range - 150 to 3050 meters; crew of three.
 - h. 120 mm. mortar. Weight - 280 kg.; range - six km.; weight of round - 12 kg.; crew of five.
2. The following artillery pieces were used by Soviet forces in Hungary and were intended for ultimate use by the Hungarian Army, although they had not been handed over to the Hungarians by November 1956:
- a. 82 mm. antitank rocket launcher. Fired from tripod; crew of three.
 - b. 106.7 mm. recoilless gun. Fired from tripod; range - approximately 1000 meters; for use against tanks and prepared positions.
 - c. 85 mm. gun with muzzle brake. Weight - two tons; range - approximately 17 km.; double aiming mechanism for direct and indirect fire.
 - d. 160 mm. mortar. Range - 9 km.

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3. The following antiaircraft guns were used by the Hungarian Army:
 - a. 12.7 mm. machine gun. Effective range - one km.
 - b. 37 mm. gun. Range - 3.5 km.; rate of fire - 80 to 100 rounds per minute; automatic fire; pulled by a 3-ton truck.
 - c. 85 mm. gun. Range - 6.5 km.; semi-automatic; pulled by tracked prime mover S-80.
4. Prior to the rebellion, the Hungarian Army planned to obtain the ZPU-2 (twin-barrel) antiaircraft machine gun, the ZPU-4 (quadruple-barrel) antiaircraft machine gun, and the 90 mm. antiaircraft gun.
5. The Hungarian Army did not use any self-propelled guns, but the Soviet Army in Hungary used the SU-76 and the JSU-122.

Signal Equipment

6. Hungarian artillery used both line and radio communication, and both systems linked the smallest unit to General Headquarters. The following signal equipment was used by the artillery units: all of Hungarian make but based on Soviet prototypes
 - a. R-10 radio set had a range of 4-10 km., was carried in a back pack, and was used by sections and batteries.
 - b. R-20 radio set had a range of 15 km., was carried in a back pack, and was used at regimental headquarters.

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- c. R-7 radio set had a range of 40-60 km., was carried in a jeep, and was used at regimental or brigade headquarters.
 - d. R-40 radio set/^{was}carried in a special signal vehicle and was used at army headquarters.
7. The organization of signal units in artillery formations was as follows:
- a. The Chief Artillery Officer (Tozer Torzs Fonok Hiradi Heljetese) had a Lt. Colonel (Alezredes) as his signal officer, who was responsible for the signal organization for artillery headquarters. He forwarded all requests to Signal Headquarters and received all equipment required for implementation.
 - b. The artillery staff at the corps headquarters in Hadjest had a Major as signals officer. He had under him a Captain, a Lieutenant, a platoon for laying telephone lines, and a platoon of exchange operators.
 - c. The signals officer in an artillery regiment was either a Major or Captain and had under his command platoon signal officers, a 2nd Lieutenant (Hadnagy) as signal technician, and a sergeant in charge of signal supply.
 - d. The headquarters company of an artillery regiment had one section of telephone operators and one section of radio operators.

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Soviet Advisers

8. The Soviet military attache is the chief adviser and is of a very high professional standard. His office is in the War Ministry, adjacent to the Minister's offices. A secretariat composed of Soviet staff officers with knowledge of Hungarian affairs serves as an advisory body. There is one Soviet adviser at the War Ministry for each corps and additional advisers for special professional departments within the corps. For example, there were three Soviet advisers for the Artillery: one to the Artillery Commander, one to the Antiaircraft Officer, and one to the Ordnance Officer. At the divisional level and higher, the rate of advisers is one per division plus one for the corps (four per Army Corps).
9. The Soviet deputy military attache was the chief adviser to the Chief of the General Staff, and his deputy served as adviser to the Operations Branch. The Chemical, Signals, Mobilization, and Intelligence Branches also had Soviet advisers, although those at the Intelligence Branch were only temporarily assigned. The usual term of service for the Soviet advisers was three years, although some did serve for shorter periods on a temporary basis. The Soviet advisers held periodic professional meetings and kept to themselves socially.

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10. Temporary advisers were featured during the construction of the Southern Defense Line along the Yugoslav border. A large number of Soviet advisers worked in Hungarian uniforms to supervise the fortification works in the field.

Organization

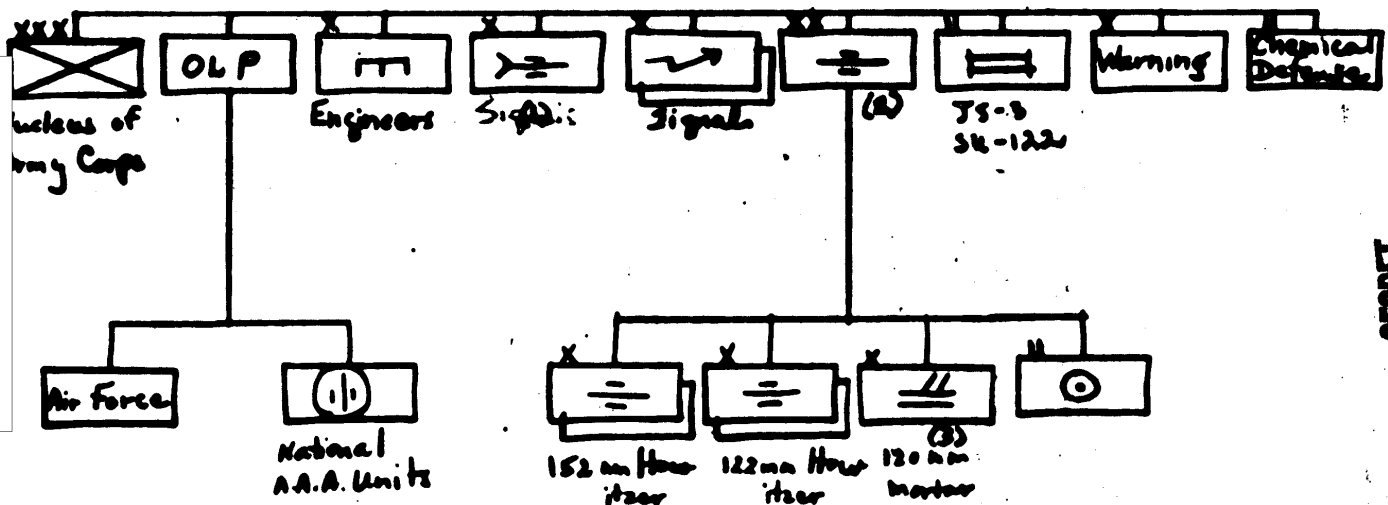
11. The following charts show the organization of the Hungarian armed forces, with emphasis on the artillery units:
- a. Forces directly subordinate to the Minister of Defense
 - b. Army
 - c. Forces directly subordinate to Army
 - d. Artillery directly subordinate to Army
 - e. Infantry Corps
 - f. Infantry Division
 - g. Mechanized Infantry Division
 - h. Infantry Brigade
 - i. Infantry Regiment
 - j. General Staff
 - k. Army headquarters
 - l. Artillery headquarters in an army
 - m. Artillery headquarters in a corps
 - n. Artillery headquarters in a division

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Forces Directly Subordinate to Minister of Defense

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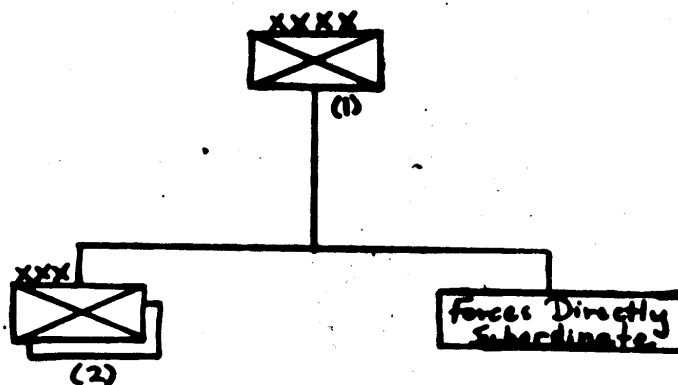


- (1) Structure same as in Army
- (2) Artillery Assault Division
- (3) TOE calls for 160 mm mortars

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b

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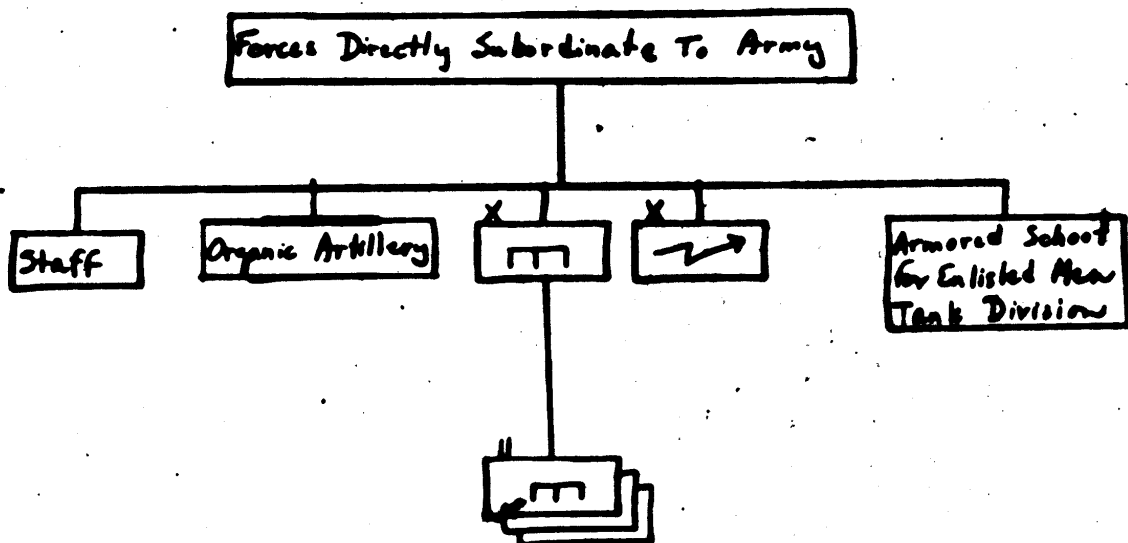


(1) Organized July-October 1956. Component formations not new, only their subordination.

(2) VIth Corps at Szekesfehervar
IIIrd Corps at Kacskepet

c

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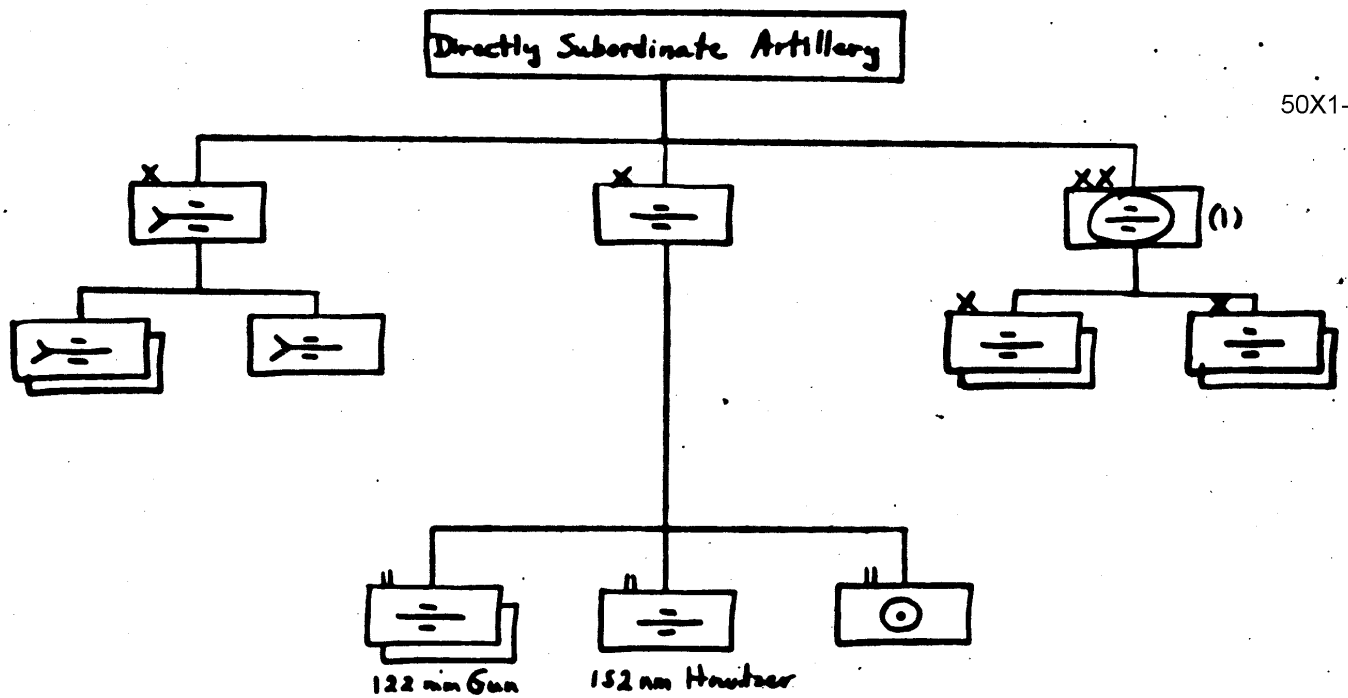
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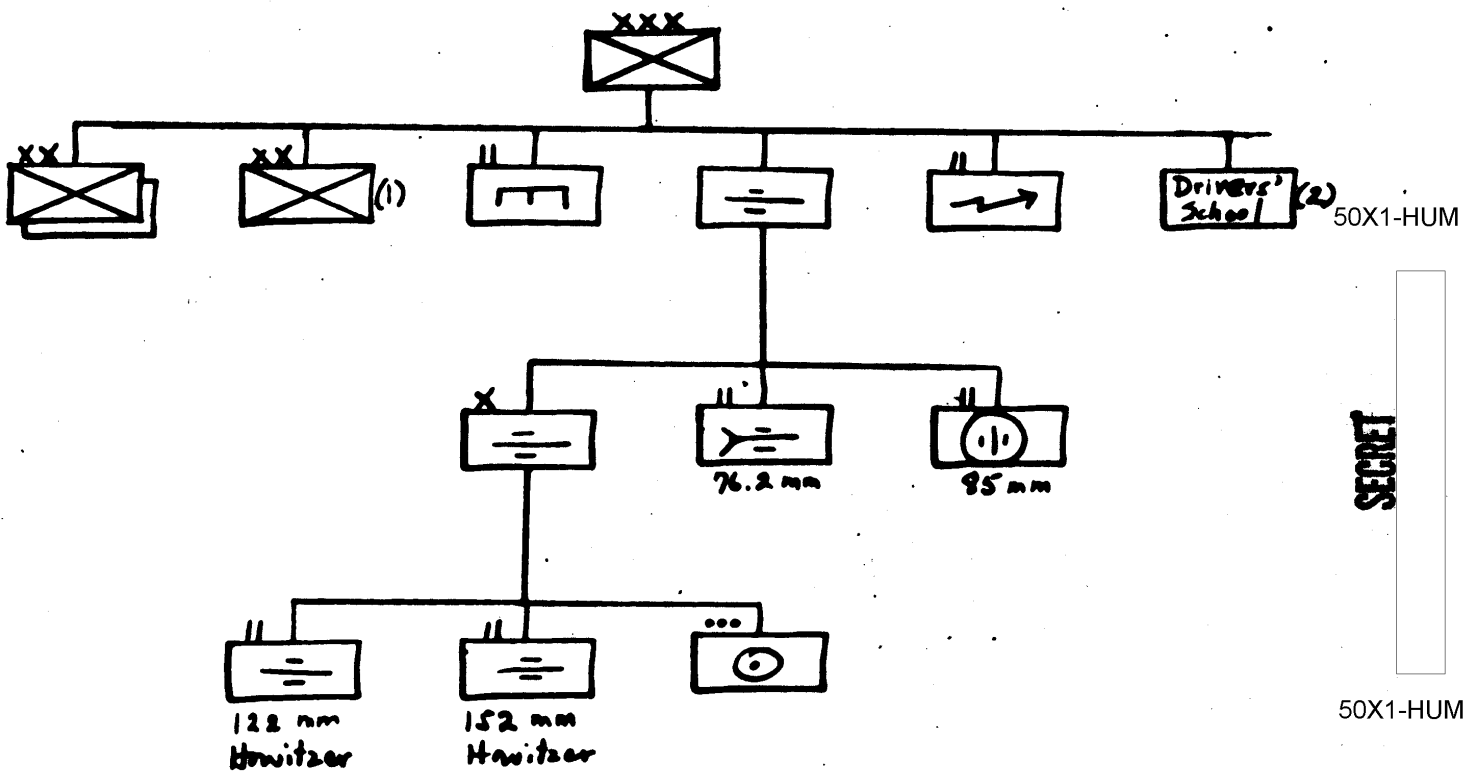
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(1) 38th Antiaircraft Artillery Division

e

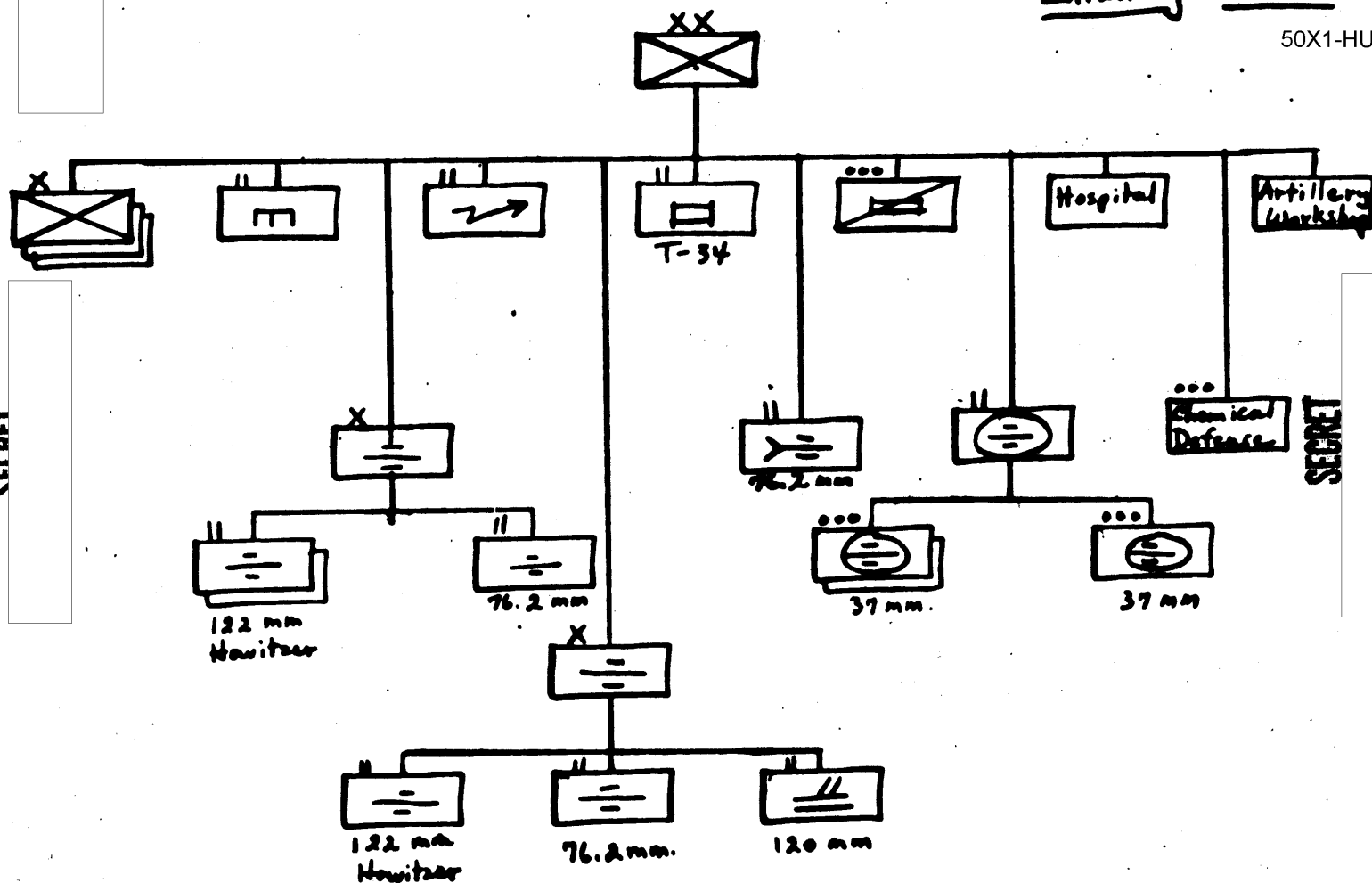


(1) Motorized Infantry Division

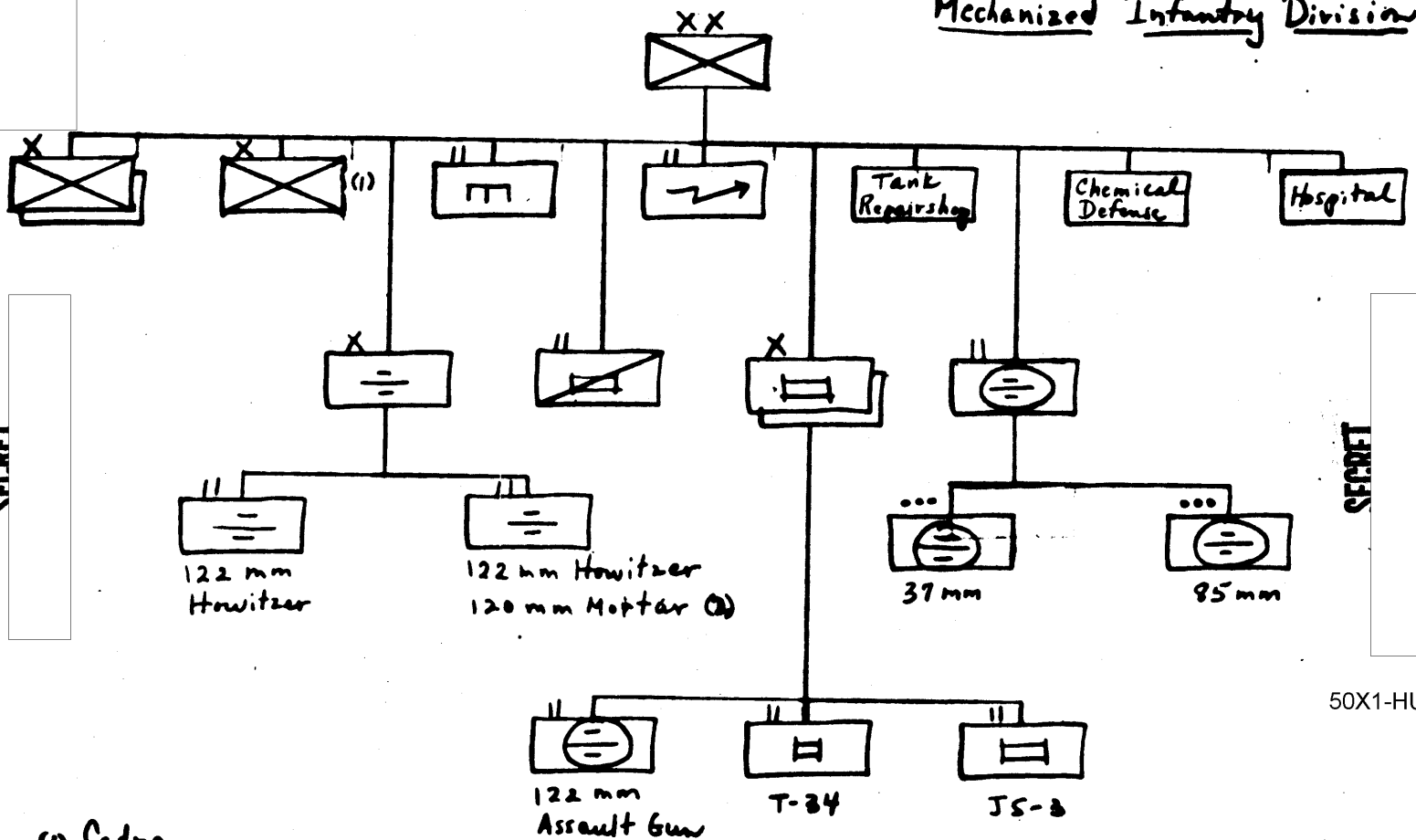
(2) Two courses per year, 400-500 students in each

Infantry Division

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Mechanized Infantry Division

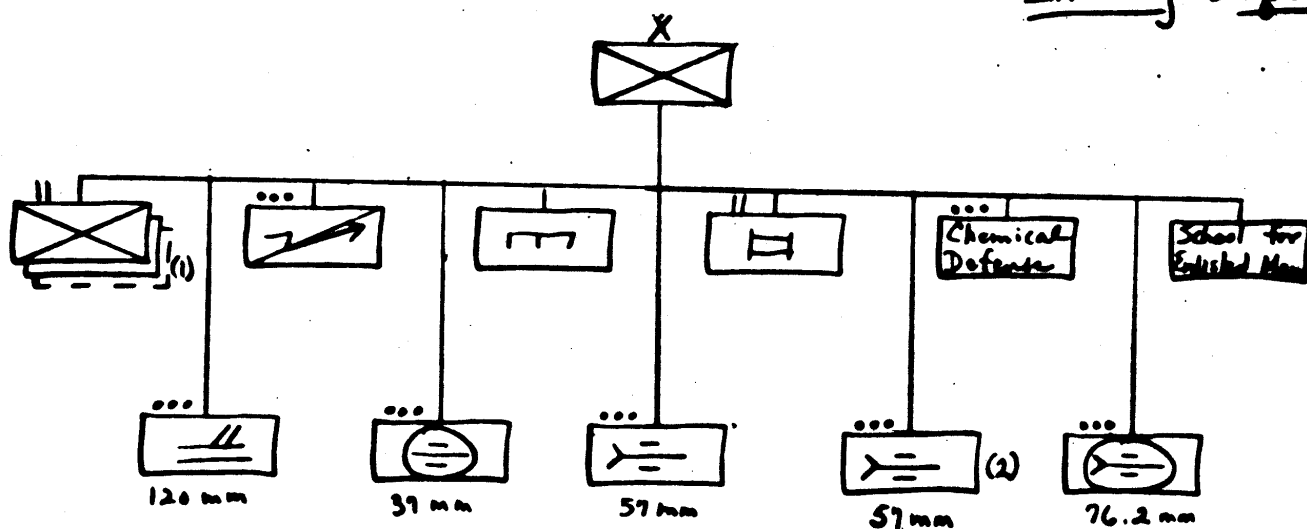


- (1) Cadre
- (2) TOE calls for 160 mm mortars

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Infantry Brigade

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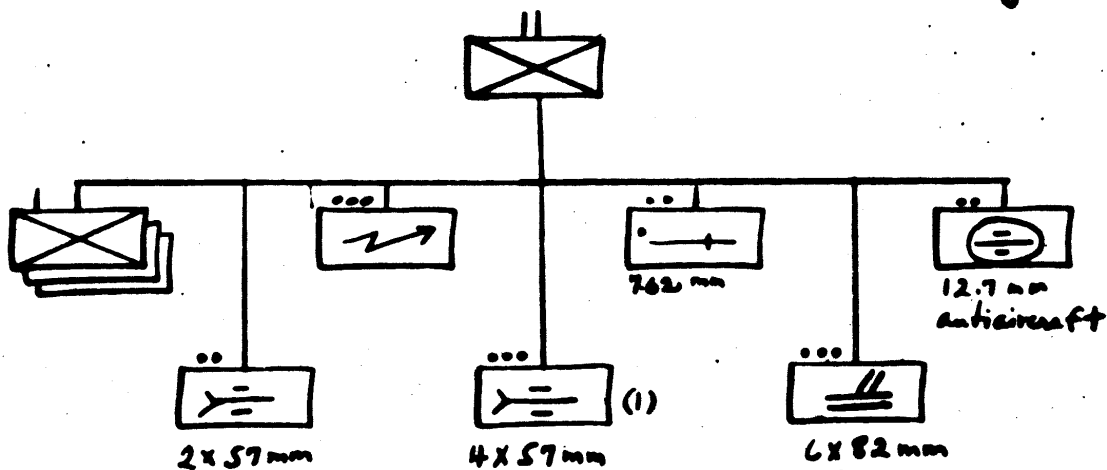


(1) Cadre

(2) TOE calls for 106.7 mm recoilless guns

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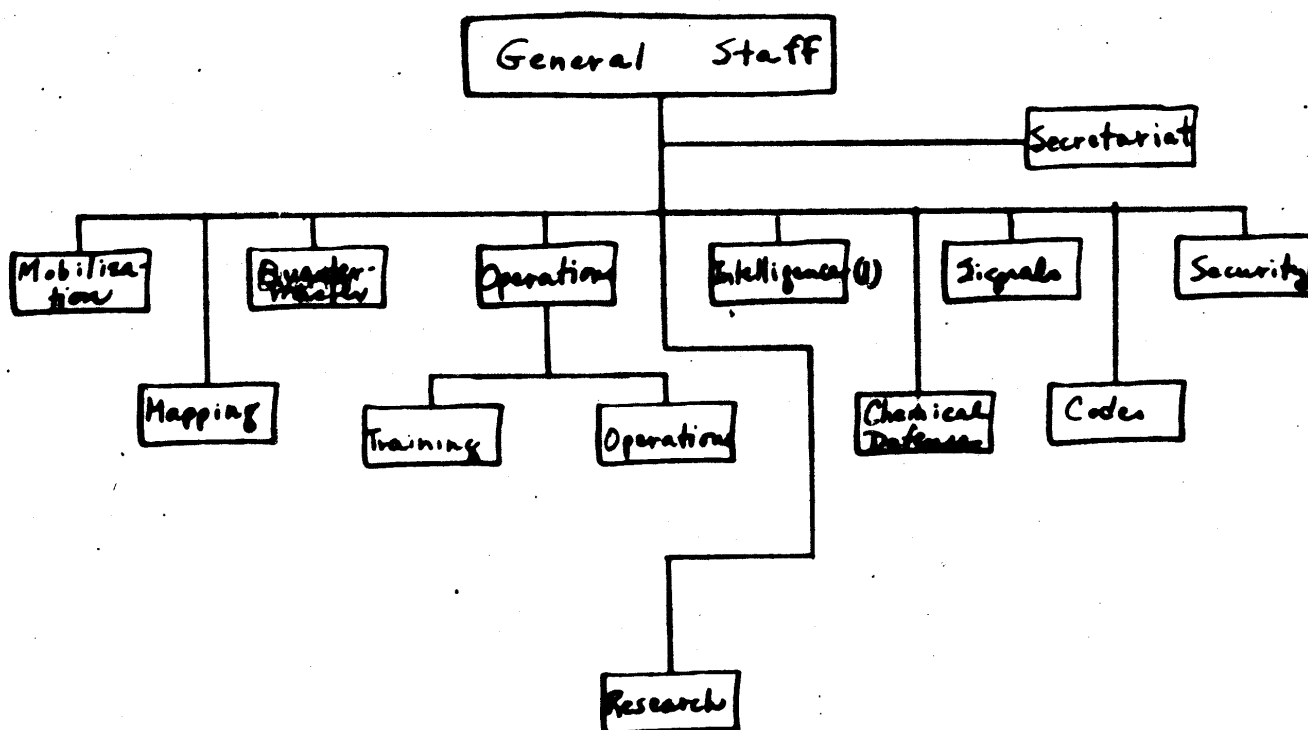
Infantry Regiment



(1) TOE calls for 4x 82 mm recoilless

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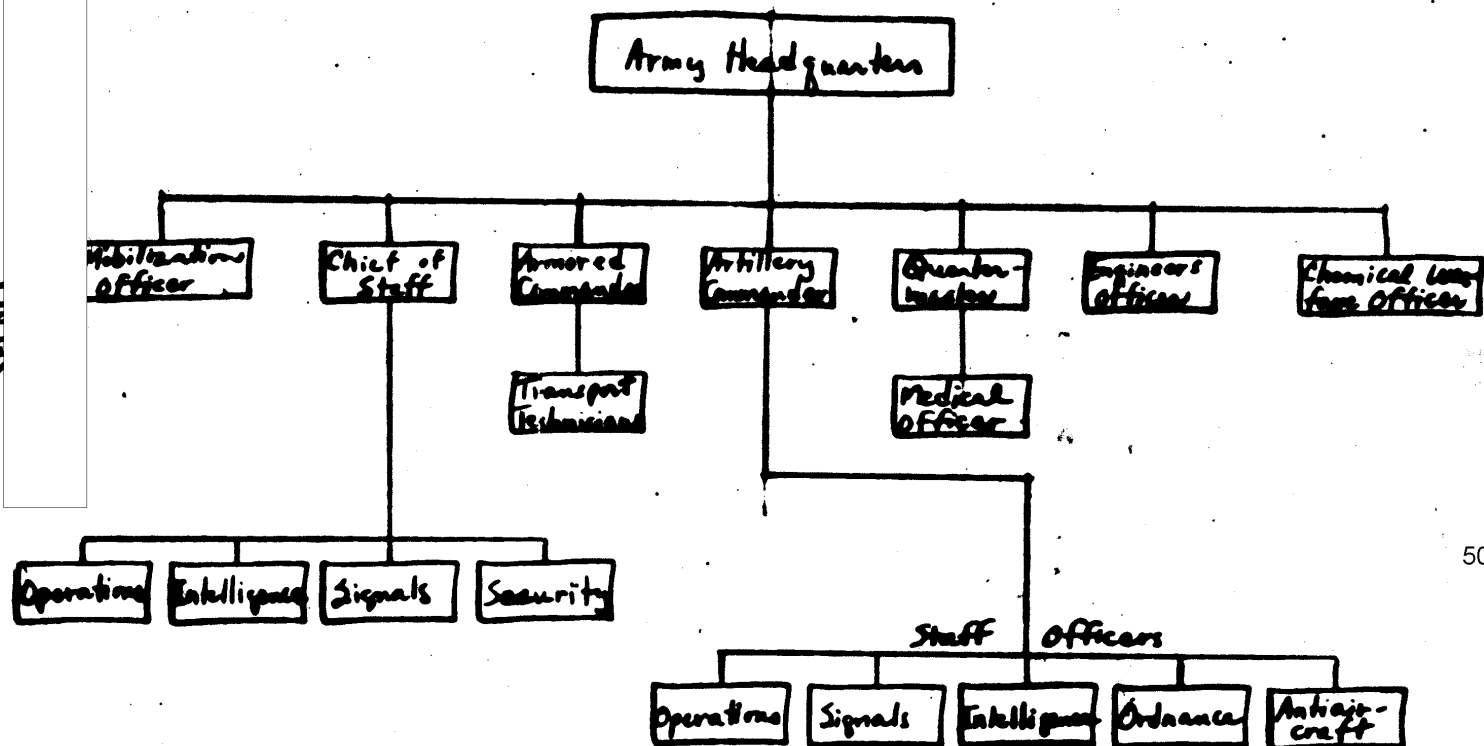
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(1) Relatively weak and of limited staff because Soviet information material is supplied.

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Auxiliary Headquarters in ARW

Commander
Ordnance Officer

Arms Repair Shop
Arsenal
Mobilization Officer

Chief of Staff
Operations Officer
Intelligence Officer
Survey Officer
Signals Officer
Mobilization Officer
Field Security Officer
Administrative Officer
Quartermaster

Transport Unit
Headquarters Battery
Reconnaissance Section
Survey Detachment
Radio and Telephone Detach-
ment
Services Detachment

Deputy Medical Commander
Brigade Dispensary
Medical Storage

Engineers Officer
All Engineer Stores

Deputy Technician Commander

All Combatant Transport Vehicles

Repair Shop
Stores (gas fuel)

Deputy Quartermaster

Rations
Clothing
Fuel
Stores
VP Section

Chemical Warfare Officer

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Artillery Headquarters in Army Corps

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<u>Commander of Artillery</u>		
Chief of Staff for Artillery	Deputy for Antiaircraft	Ordnance Officer --
Operations Officer for Artillery	Antiaircraft Operations Officer	Engineer
Artillery Intelligence Officer	Antiaircraft Machine Gun (12.7) Officer	Assistant Ordnance Officers
Signals Officer		
Headquarters Battery		
Radio Detachment		
Telephone Detachment	12.7 mm twin barrell	2-ZPU
Reconnaissance Detachment	12.7 mm quadruple barrell	4-ZPU
Technical Assistance Department	Not included in Hungarian equipment, only in Soviet units.	

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Artillery Headquarters in Division

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Artillery
Headquarters

Commander of Artillery

Chief of Staff for Artillery	Deputy Ordnance Officer
Operations Officer	Assistant Ordnance Officers
Intelligence Officer	Ammunition Store
Signals Officer	Arms Stores
Antiaircraft Officer	
Headquarters Battery (as in Army Corps)	

Artillery Headquarters has no organic Air Observation

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Legend to sketch I - Layout of Telephone Communications

Commander of a Corps Artillery A

1. Main Exchange, Intelligence Center
2. Observer for Commander of Artillery in First Division
3. Observer for Commander of Artillery in Second Division
4. Observer for Commander of Artillery in Third Division
5. Battle Position of Chief Artillery Officer in First Division
6. Battle Position of Chief Artillery Officer in Second Division
7. Battle Position of Chief Artillery Officer in Third Division
8. Battle Position of Chief Artillery Officer in Army Corps
9. Battle Position of Artillery Commander in Army Corps
10. Reserve Observer for Artillery Commander in Army Corps
11. Observer for Commander of Artillery Group in Army Corps
12. Observer for Army Corps Commander
13. Observer for Artillery Commander in Army Corps
14. Observer for Antiaircraft Artillery Group in Army Corps
15. Observer for Antitank Artillery Reserve Army Corps
16. Communication to Artillery headquarters of Army
17. Communication to Artillery Group (if any) of Army

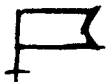
Marking:



Observer



Telephone Exchange

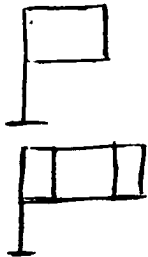


Battle Position of Divisional Artillery Commander



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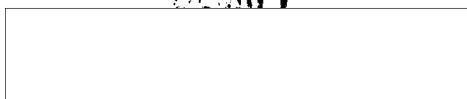
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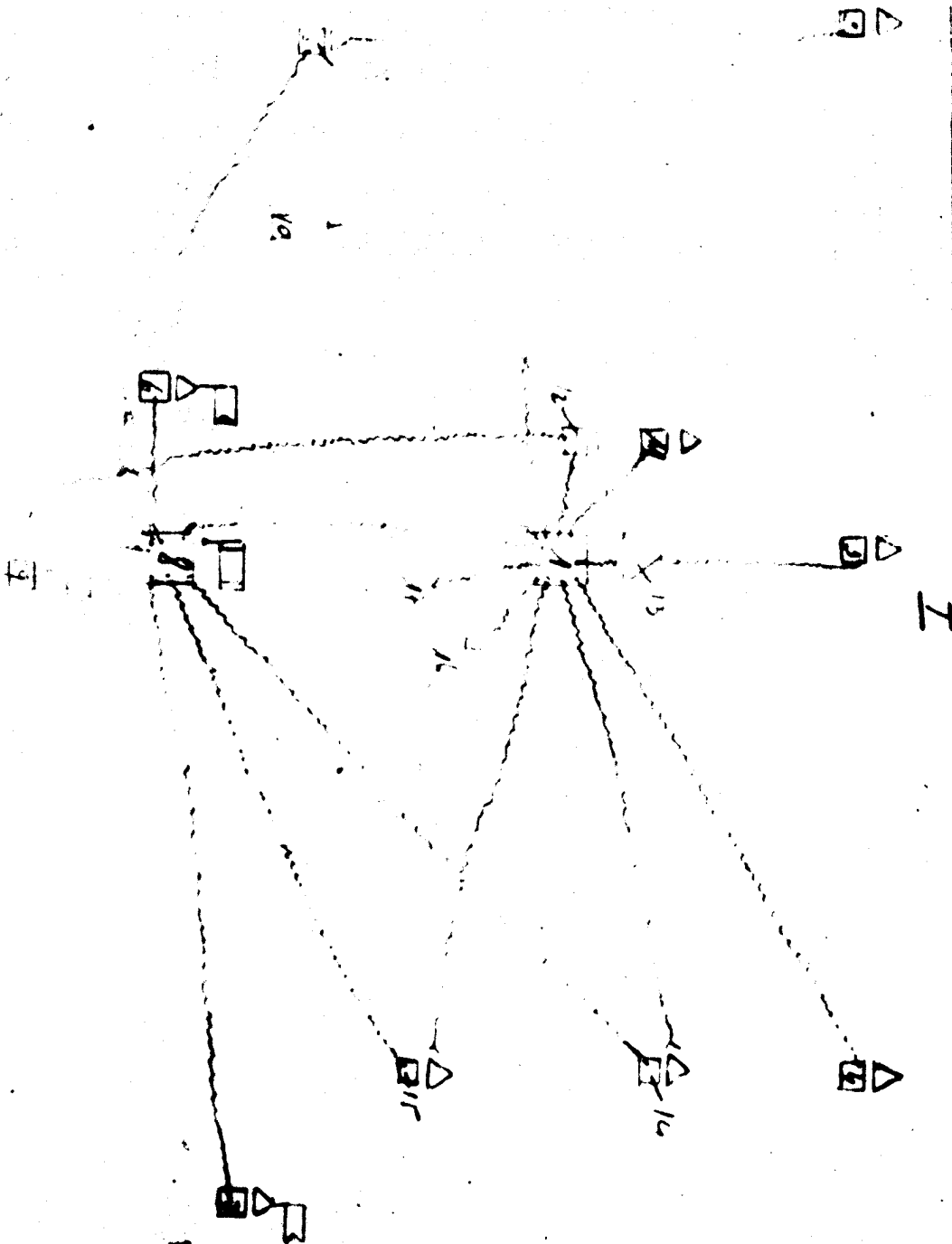
Battle Position of Battalion Artillery Commander

Battle Position of Army Corps Artillery Commander

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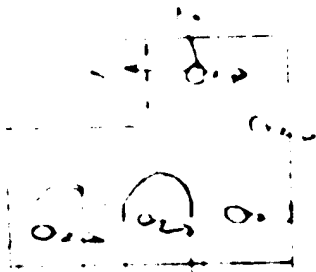
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Legend to sketch II - Layout of Artillery Commander's in Army Corps

1. battle headquarters of Army Corps Commander
2. Observer for Artillery Commander in Army Corps
3. Communication with Commander in Chief
4. Artillery Commander in First Division
5. Artillery Commander in Second Division
6. Artillery Commander in Third Division
7. Observer for Artillery Reserve in Army Corps
8. Commander of Antitank, Artillery in Army Corps
9. Position of Artillery Commander in Army Corps
10. Antiaircraft officer for Artillery Commander
11. Antiaircraft Artillery Group in Army Corps
12. battle positions of guns.



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